



PATENT
Docket No.: 3213/104

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Martin et al.)
Serial No. : 10/524,750 ✓)
Cnfrm. No. : 6908)
Filed : August 13, 2003)
For : BACTERIAL EFFECTOR PROTEINS WHICH)
INHIBIT PROGRAMMED CELL DEATH)

Examiner:
Medina A. Ibrahim
Art Unit:
1638

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97-1.98

Mail Stop: Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.97-1.98, applicants hereby bring to the attention of the United States Patent and Trademark Office, the references listed on the attached PTO/SB/08 form.

Pursuant to 37 CFR § 1.98(a)(2)(ii), copies of the cited U.S. Patents (i.e., Reference Cite Nos. 1-8) are not enclosed. Copies of the other listed references (i.e., Reference Cite Nos. 9-93) are enclosed herewith

Pursuant to 37 CFR § 1.97(b)(3), no fee is required. If additional fees are required, however, the Commissioner is hereby authorized to charge any fees to Deposit Account No. 14-1138.

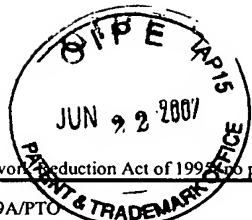
Respectfully submitted,

Date: June 19, 2007

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450, on the date below.	
Date <u>6/20/07</u>	<u>Wendy L. Barry</u> Wendy L. Barry



Substitute for form 1449A/PTO				Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/524,750	
				Filing Date	August 13, 2003	
				First Named Inventor	MARTIN et al.	
				Art Unit	1638	
				Examiner Name	Medina A. Ibrahim	
Sheet	1	of	8	Attorney Docket Number	3213/104	
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	1	US-4,237,224	12-02-1980	COHEN et al.		
	2	US-4,945,050	07-31-1990	SANFORD et al.		
	3	US-5,034,322	07-23-1991	ROGERS et al.		
	4	US-5,036,006	07-31-1991	SANFORD et al.		
	5	US-5,100,792	03-31-1992	SANFORD et al.		
	6	US-5,352,605	10-04-1994	FRALEY et al.		
	7	US-5,750,385	05-12-1998	SHEWMAKER et al.		
	8	US-6,002,068	12-14-1999	PRIVALLE et al.		
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T ²
	9	AOYAMA et al., "A Glucocorticoid-Mediated Transcriptional Induction System in Transgenic Plants," <i>Plant J.</i> 11:605-612 (1997)				
	10	AUSUBEL et al., CURRENT PROTOCOLS IN MOLECULAR BIOLOGY, John Wiley & Sons, New York, New York (1989) (Cover Page and Table of Contents Only)				
	11	BOGDANOVE et al., "AvrPto-Dependent Pto-Interacting Proteins and AvrPto-Interacting Proteins in Tomato," <i>Proc. Natl. Acad. Sci. USA</i> 97(16):8836-8840 (2000)				
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	13	CHANG et al., "avrPto Enhances Growth and Necrosis Caused by <i>Pseudomonas syringae</i> pv. <i>Tomato</i> in Tomato Lines Lacking Either <i>Pto</i> and <i>Prf</i> ," <i>Mol. Plant-Microbe Interact.</i> 13(5):568-571 (2000)				
	14	CHANG et al., "Functional Studies of the Bacterial Avirulence Protein AvrPto by Mutational Analysis," <i>Mol. Plant-Microbe Interact.</i> 14(4):451-459 (2001)				
	15	CHEN et al., "The <i>Pseudomonas syringae</i> <i>avrRpt2</i> Gene Product Promotes Pathogen Virulence from Inside Plant Cells," <i>Mol. Plant Microbe Interact.</i> 13(12):1312-1321 (2000)				
Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at 222.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
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	16	CLIFTON et al., "NF-κB-Dependent Inhibition of Apoptosis is Essential for Host Cell survival During <i>Rickettsia rickettsii</i> Infection," <i>Proc. Natl. Acad. Sci. USA</i> 95:4646-4651 (1998)			
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	20	DANGL & JONES, "Plant Pathogens and Integrated Defense Responses to Infection," <i>Nature</i> 411:826-833 (2001)			
	21	DEL POZO et al., "Caspases and Programmed Cell Death in the Hypersensitive Response of Plants to Pathogens," <i>Curr. Biol.</i> 8:1129-1132 (1998)			
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	24	FRALEY et al., "Entrapment of Bacterial Plasmid in Phospholipid Vesicles: Potential for Gene Transfer," <i>Proc. Natl. Acad. Sci. USA</i> 76(7):3348-3352 (1979)			
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	26	FREDERICK et al., "Recognition Specificity for the Bacterial Avirulence Protein AvrPto is Determined by Thr-204 in the Activation Loop of the Tomato Pto Kinase," <i>Mol. Cell.</i> 2:241-245 (1998)			
	27	FROMM et al., "Expression of Genes Transferred Into Monocot and Dicot Plant Cells by Electroporation," <i>Proc. Natl. Acad. Sci. USA</i> 82:5824-5828 (1985)			
	28	GALÁN et al., "Type III Secretion Machines: Bacterial Devices for Protein Delivery Into Host Cells," <i>Science</i> 284:1322-1328 (1999)			
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	29	GENBANK ACCESSION NO. AF141883 (16-SEP-1999)			
	30	GENBANK ACCESSION NO. AY074795 (05-FEB-2002)			
	31	GENG et al., "Chlamydia pneumoniae Inhibits Apoptosis in Human Peripheral Blood Mononuclear Cells Through Induction of IL-10," <i>J. Immunol.</i> 164:5522-5529 (2000)			
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	34	GUTTMAN et al., "A Functional Screen for the Type III (Hrp) Secretome of the Plant Pathogen <i>Pseudomonas syringae</i> ," <i>Science</i> 295:1722-1726 (2002)			
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	36	HEATH, M.C., "Hypersensitive Response-Related Death," <i>Plant Mol. Biol.</i> 44:321-334 (2000)			
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	38	INNES et al., "Molecular Analysis of Avirulence Gene <i>avrRpt2</i> and Identification of a Putative Regulatory Sequence Common to All Known <i>Pseudomonas syringae</i> Avirulence Genes," <i>J. Bacteriol.</i> 175:4859-4869 (1993)			
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	42	JIN et al., "Role of the Hrp Pilus in Type III Protein Secretion in <i>Pseudomonas syringae</i> ," <i>Science</i> 294:2556-2558 (2001)			
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	54	LACOMME et al., "Bax-Induced Cell Death in Tobacco is Similar to the Hypersensitive Response," <i>Proc. Natl. Acad. Sci. USA</i> 96:7956-7961 (1999)			
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	55	LAM et al., "Caspase-Like Protease Involvement in the Control of Plant Cell Death," <i>Plant Mol. Biol.</i> 44:417-428 (2000)			
	56	LINDGREN, P.B., "The Role of <i>hrp</i> Genes During Plant-Bacterial Interaction," <i>Annu. Rev. Phytopathol.</i> 35:129-152 (1997)			
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	66	RIELY & MARTIN, "Ancient Origin of Pathogen Recognition Specificity Conferred by the Tomato Disease Resistance Gene <i>Pto</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 98(4):2059-2064 (2001)			
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	67	RITTER & DANGL, "Interference Between Two Specific Pathogen Recognition Events Mediated by Distinct Plant Disease Resistance Genes," <i>Plant Cell</i> 8:251-257 (1996)			
	68	RONALD et al., "The Cloned Avirulence Gene <i>avrPto</i> Induces Disease Resistance in Tomato Cultivars Containing the <i>Pto</i> Resistance Gene," <i>J. Bacteriol.</i> 174:1604-1611 (1992)			
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	80	TANG et al., "Overexpression of <i>Pto</i> Activates Defense Responses and Confers Broad Resistance," <i>Plant Cell</i> 11:15-30 (1999)			
	81	TANG et al., "Initiation of Plant Disease Resistance by Physical Interaction of AvrPto and Pto Kinase," <i>Science</i> 274:2060-2063 (1996)			
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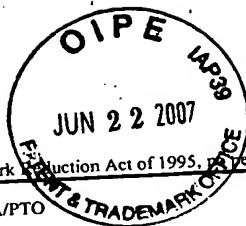
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				Filing Date	August 13, 2003
				First Named Inventor	MARTIN et al.
				Group Art Unit	1638
				Examiner Name	Medina A. Ibrahim
Sheet	8	of	8	Attorney Docket Number	3213/104
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/524,750
				Filing Date	August 13, 2003
				First Named Inventor	MARTIN et al.
				Group Art Unit	1638
				Examiner Name	Medina A. Ibrahim
Sheet	7	of	8	Attorney Docket Number	3213/104
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
	80	TANG et al., "Overexpression of <i>Pto</i> Activates Defense Responses and Confers Broad Resistance," <i>Plant Cell</i> 11:15-30 (1999)			
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	85	VAN KAN et al., "Cloning and Characterization of cDNA of Avirulence Gene <i>avr9</i> of the Fungal Pathogen <i>Cladosporium fulvum</i> , Causal Agent of Tomato Leaf Mold," <i>MPMI</i> 4(1):52-59 (1991)			
	86	VASIL, I.R. (ed.), CELL CULTURE AND SOMATIC CELL GENETICS OF PLANTS, Acad. Press, Orlando, Vol. I (1984)			
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	92	ZHOU et al., "The Tomato Gene <i>Pti1</i> Encodes a Serine/Threonine Kinase That is Phosphorylated by Pto and Is Involved in the Hypersensitive Response," <i>Cell</i> 83:925-935 (1995)				
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